

IAP7 Rec'd PCT/PTO 12 JUN 2006

PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

20

Application Number

10/531,752

Filing Date

April 18, 2005

First Named Inventor

Keith R. Minnich

Art Unit

Examiner Name

Attorney Docket Number

4553-00013

**ENCLOSURES (Check all that apply)**

Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Reply to Missing Parts/  
Incomplete ApplicationReply to Missing Parts  
under 37 CFR 1.52 or 1.53

Drawing(s)



Licensing-related Papers



Petition

Petition to Convert to a  
Provisional Application

Power of Attorney, Revocation



Change of Correspondence Address



Terminal Disclaimer



Request for Refund



CD, Number of CD(s) \_\_\_\_\_

☐ Landscape Table on CD

Remarks



After Allowance Communication to TC

Appeal Communication to Board  
of Appeals and InterferencesAppeal Communication to TC  
(Appeal Notice, Brief, Reply Brief)

Proprietary Information



Status Letter

Other Enclosure(s) (please identify  
below):

- 1) Return Receipt Postcard;
- 2) Petition Under 37 CFR 1.47 to Accept Filing  
When Inventor Refuses to Sign; and
- 3) Statement of Facts in Support of Filing on  
Behalf of Nonsigning Inventor (37 CFR 1.147)

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name

Andrus, Sceales, Starke &amp; Sawall, LLP

Signature

*Thomas M. Wozny*

Printed name

Thomas M. Wozny

Date

June 9, 2006

Reg. No.

28,922

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

*Dorothy A. Hauser*

Typed or printed name

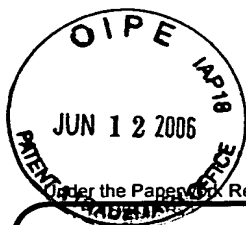
Dorothy A. Hauser

Date

June 9, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/17 (01-06)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2006

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT \$1,240.00

**Complete if Known**

Application Number	10/531,752
Filing Date	April 18, 2005
First Named Inventor	Keith R. Minnich
Examiner Name	
Art Unit	
Attorney Docket No.	4553-00013

**METHOD OF PAYMENT (check all that apply)**☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_☒ Deposit Account Deposit Account Number: 01.2000 Deposit Account Name: Andrus, Scales, Starke & Sawall, LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description		Small Entity	
		Fee (\$)	Fee (\$)
Each claim over 20 (including Reissues)		50	25
Each independent claim over 3 (including Reissues)		200	100
Multiple dependent claims		360	180
Total Claims		Multiple Dependent Claims	
		Fee (\$)	Fee Paid (\$)
- 20 = _____ x _____ = \$0.00			
HP = highest number of total claims paid for, if greater than 20.			
Indep. Claims		Fee (\$)	Fee Paid (\$)
- 3 = _____ x _____ = \$0.00			
HP = highest number of independent claims paid for, if greater than 3.			

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 = _____	/ 50 = _____	(round up to a whole number) x _____	= _____	\$0.00

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)	Fees Paid (\$)
Other (e.g., late filing surcharge): Extension (\$795); Missing Part (\$65); Additional Claims (\$250) and Petition (\$130)	\$1,240.00

**SUBMITTED BY**

Signature	<i>Thomas M. Wozny</i>	Registration No. (Attorney/Agent)	28,922	Telephone	414-271-7590
Name (Print/Type)	Thomas M. Wozny			Date	June 9, 2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No. :	10/531,752	)	CERTIFICATE OF MAILING
Applicant :	Keith R. Minnich et al	)	I hereby certify that this correspondence is
		)	being deposited with the United States
Filed :	April 18, 2005	)	Postal Service with sufficient postage as
Title :	Method and Apparatus	)	first class mail in an envelope addressed to:
	for High Efficiency	)	Commissioner of Patents, P.O. Box 1450,
	Evaporation Operation	)	Alexandria, VA 22313-1450, on this
		)	<u>9<sup>th</sup></u> day of <u>June</u> , 2006.
TC/A.U. :		)	
Examiner :		)	
		)	<u>Dorothy A. Hauser</u> <u>9 June 2006</u>
Docket No. :	4553-00013	)	Dorothy A. Hauser Date

SUBMISSION OF MISSING PARTS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Responsive to the "Notice to File Missing Parts of Application – Filing Date Granted" mailed December 12, 2005 (copy attached), a four (4) month extension of time being hereby requested in a separate attachment which is included, enclosed for filing in the above application are:

1. A Declaration in this application executed by two of the three joint inventors. The Declaration includes the names of the inventors and the title of the invention, and the U.S. serial number and filing date assigned to this patent application, as well as the international application number and international filing date assigned to this application. In accordance with the Commissioner's announcement in 1035 OG 3, the undersigned registered attorney states that the application now identified by Application No. 10/531,752 is the application that the inventors reviewed and executed by signing the attached Declaration.

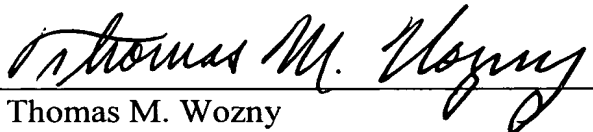
Application No. 10/531,752  
Applicants: Keith R. Minnich et al  
Attorney Docket No. 4553-00013

2. A Petition (with attachments) under 37 CFR 1.47(a) to accept filing when one of the joint inventors refuses to sign that is being filed on even date herewith.
3. A check in the amount of \$1,240.00 consisting of \$795.00 for a four month extension of time fee and \$65.00 for the surcharge as set forth in 37 CFR 1.16(e), \$130.00 for filing a Petition under 37 CFR 1.47 to accept filing when an inventor refuses to sign, and \$250.00 for additional claim fees. Kindly charge any additional fees under 37 C.F.R. §1.16 or 1.17 incurred in connection with this application to Andrus, Sceales, Starke & Sawall, LLP Deposit Account No. 01.2000. A duplicate copy of this submission is attached.

Issuance of a filing receipt and advancement of the application to examination is respectfully requested.

Respectfully submitted,

ANDRUS, SCEALES, STARKE & SAWALL, LLP

By   
Thomas M. Wozny  
Reg. No. 38,922

Andrus, Sceales, Starke & Sawall, LLP  
100 East Wisconsin Avenue, Suite 1100  
Milwaukee, WI 53202  
(414) 271-7590  
Attorney Docket No.: 4553-00013



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/531,752	Keith R MINNICH	4553-00013

INTERNATIONAL APPLICATION NO.
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PCT/US03/33066

I.A. FILING DATE	PRIORITY DATE
10/17/2003	10/18/2002

Thomas M Wozny  
 Andrus, Sceales, Starke & Sawall  
 100 East Wisconsin Avenue  
 Suite 1100  
 Milwaukee, WI 53202

CONFIRMATION NO. 6059

371 FORMALITIES LETTER



\*OC000000017632257\*

Date Mailed: 12/12/2005

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 04/18/2005
- Copy of the International Search Report filed on 04/18/2005
- Preliminary Amendments filed on 04/18/2005
- Information Disclosure Statements filed on 07/27/2005
- U.S. Basic National Fees filed on 04/18/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Additional claim fees of **\$250** as a small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$315** for a Small Entity:

- \$65 Surcharge.
- Total additional claim fee(s) for this application is \$ 250
  - \$250 for 117 total claims over 20.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

FRANCINE YOUNG

Telephone: (703) 308-9140 EXT 215

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/531,752	PCT/US03/33066	4553-00013

FORM PCT/DO/EO/905 (371 Formalities Notice)